

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 September 2004 (02.09.2004)

PCT

(10) International Publication Number
WO 2004/073537 A3

(51) International Patent Classification⁷: **A61B 18/20**

01887 (US). EROFEEV, Andrei, V. [RU/US]; 38 Royal Crest Drive #7 (US).

(21) International Application Number:
PCT/US2004/005174

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(22) International Filing Date: 19 February 2004 (19.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/448,762 19 February 2003 (19.02.2003) US

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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[Continued on next page]

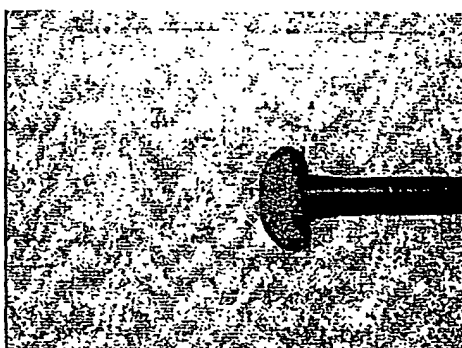
(54) Title: METHOD AND APPARATUS FOR TREATING PSEUDOFOLLICULITIS BARBAE

Before



(a)

After



(b)

(57) Abstract: Method and apparatus for hair treatment are disclosed which comprised which comprise applying electromagnetic radiation (EMR) to a skin treatment area to deposit energy in one or more hairs so as to modify a shape and/or chemical structure of at least a portion of the hairs. The applied radiation can cause heating of the hair tips, so as to modify their shape, e.g., reduce sharpness of the hair tips. Modification of the hair can involve heat-induced changes to the shape, composition, or function of the hair tip, hair shaft, and/or hair matrix that make the hair less capable of re-entering the skin. The methods and apparatus can treat and/or prevent pseudofolliculitis barbae (PFB) in the treatment area. A method is also disclosed for managing hair growth using wavelengths between 1200 nm and 1400 nm.



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

2 December 2004

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US2004/005174

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B18/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/023283 A1 (MCDANIEL DAVID H) 30 January 2003 (2003-01-30) paragraphs '0015!', '0052!', '0062! paragraph '0069!	1-6
X	US 2001/041886 A1 (DURKIN ANTHONY J ET AL) 15 November 2001 (2001-11-15) paragraph '0012! tables 1,3,4	1,3,5,6
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	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *A* document member of the same patent family

Date of the actual completion of the international search

14 September 2004

Date of mailing of the international search report

24.09.2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/005174

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 736 308 A (ESC MEDICAL SYSTEMS LTD) 9 October 1996 (1996-10-09) column 3, line 40 - column 4, line 19 -----	1,3,5,6
Y	WO 99/34867 A (AZAR ZION ; SHALEV PINCHAS (IL); DELIGHT TECHNOLOGIES LTD (IL)) 15 July 1999 (1999-07-15) page 10, line 1 - line 4 -----	2,4
X	WO 02/094116 A (ALTSHULER GREGORY B ; EFROFEEV ANDREI V (US); BURKE JAMES III (US); CA) 28 November 2002 (2002-11-28) page 30, line 21 - page 33, line 13 page 34, line 21 - page 35, line 12 page 38, line 16 - line 21 page 40, line 9 - line 13 page 41, line 18 figures 18A,18B,19,20,25 -----	1-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/005174

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 10-69
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 10-69

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/005174

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/005174

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